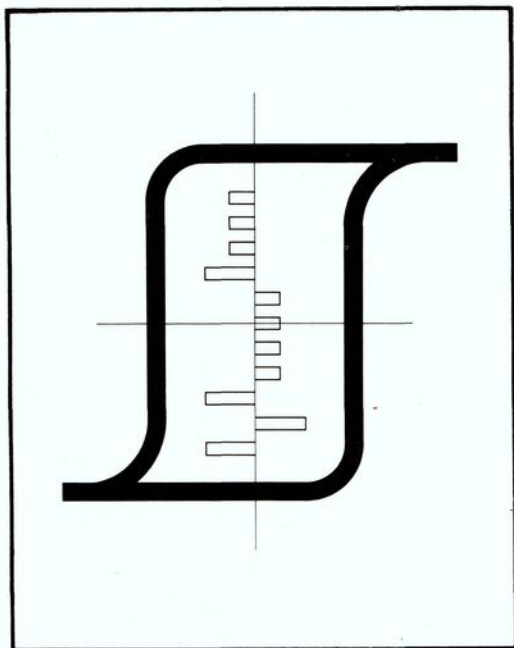




MEMORY PRODUCTS



FERRITE MEMORY CORE Type FC-2001

FC-2001 is a 20 mil ferrite memory core which exhibits a very fast switching speed at moderate drive currents. It is recommended for use in memories having cycle times of 2 microseconds. At a nominal drive current of 700 milliamperes, FC-2001 has a switching time of approximately 0.35 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter $.0022" \pm 0.001"$
Inside Diameter $.0014" \pm 0.001"$
Thickness $.0006" \pm 0.0005"$

Fracture strength: The core will not fracture when subjected to a compressive force of 100 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25°C)

Drive Currents

$I_r = I_w = 700$ milliamperes
 $I_{pw} = 350$ milliamperes
 $t_r = 0.10$ microseconds
 $t_d = 1.5$ microseconds

Output Signals

$uV_1 = 40$ millivolts
 $dV_z = 2.5$ millivolts
 $t_p = 0.20$ microseconds
 $t_s = 0.35$ microseconds

TEST SPECIFICATIONS (at 25°C)

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by MIL STD-105D, Inspection Level II.

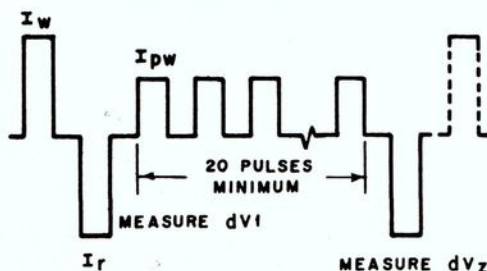


Figure 1.

Test Drive Conditions

$I_r = I_w = 640$ milliamperes $\pm 1\%$
 $I_{pw} = 385$ milliamperes $\pm 1\%$
 $t_r = 0.10$ microseconds
 $t_d = 1.5$ microseconds

Test Output Signals

$uV_1 = 28$ millivolts minimum
 $dV_z = 4$ millivolts maximum
 $t_p = 0.21 \pm .02$ microseconds
 $t_s = 0.38$ microseconds maximum

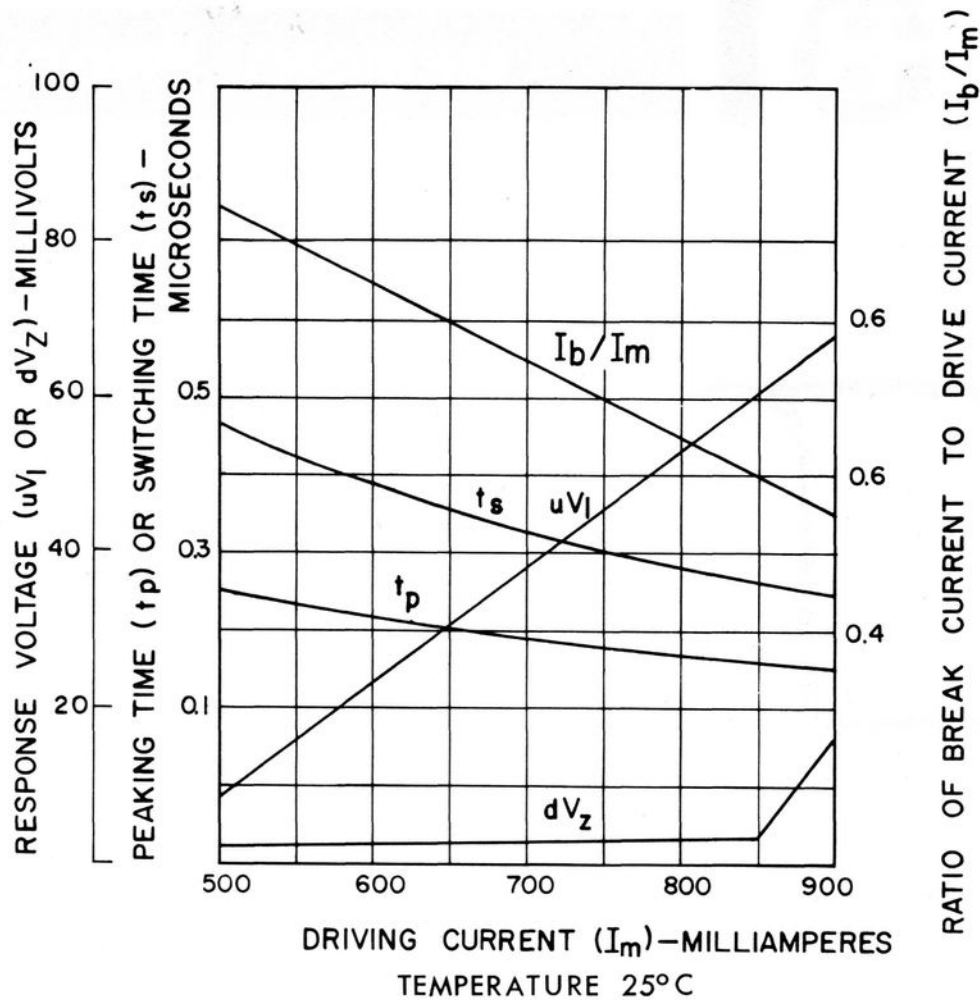


Figure 2. TYPICAL OPERATING CHARACTERISTICS

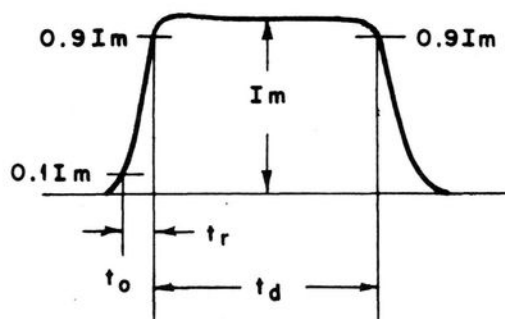


Figure 3. CURRENT PULSE

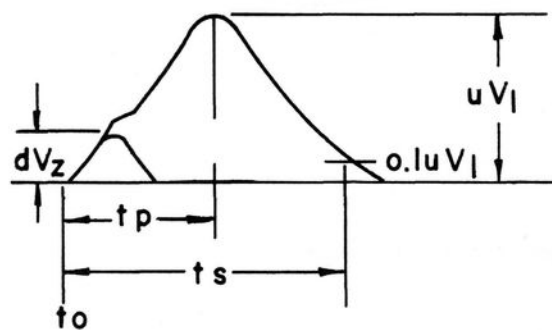


Figure 4. VOLTAGE RESPONSE

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PLAINFIELD, NEW JERSEY